

Element Performance Inspection (EPI)

3.1.7 De-Icing Program (OP)

Purpose of this Element (Air Carrier's responsibility):

To prevent take-off of aircraft with frost, ice, or snow adhering to critical surfaces.

Objective (FAA responsibility):

To determine if the Air Carrier adheres to the procedures and controls of its De-Icing / Anti-Icing Program.

Specific Instructions for this EPI:

To accomplish this EPI, the inspector should be familiar with the Air Carrier's de-Icing / Anti-Icing program. To complete the Master record of this EPI, the inspector will have to observe the de-Icing / Anti-Icing process at the departure gate, and directly prior to aircraft take-off.

Question 2. Examples of De-Icing / Anti-Icing Program procedures:

- *The flight crew correctly determined the aircraft's holdover time based upon the type of De-Icing/Anti-Icing fluid, the fluid mixture, the current temperature, and the weather conditions, in accordance with the air carrier's procedures.*
- *Flight crewmember's communication with the De-Icing/Anti-Icing servicing personnel concerning the time De-Icing/Anti-Icing began, the type of De-Icing/Anti-Icing fluid used, and the status of the aircraft upon completion of the De-Icing/Anti-Icing process was in accordance with the air carrier's procedures.*

Question 3. Examples of De-Icing/Anti-Icing Program Controls:

- *The flight crew had available to them the most current editions of all the De-Icing fluid holdover timetables included in the air carrier's approved program.*
- *The flight crew completed all the air carrier's approved checks of aircraft surfaces before takeoff.*
- *Takeoff was within the aircraft's holdover time; or the aircraft's "critical surfaces" were checked and determined to be free of contamination, and takeoff completed within 5 minutes of completing that check; or the aircraft returned for additional De-Icing/Anti-Icing.*

Related EPIs:

- 3.1.3 Airmen Duties / Flight Deck Procedures (OP)
- 3.2.1 Dispatch / Flight Release (OP)
- 5.1.5 Station Facilities (OP)

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To meet this objective, the inspector will accomplish the following tasks (at the inspection locations where applicable):

1. Review the FAA Guidance and Specific Regulatory Requirements (SRR) included in the supplemental information section of this EPI.
2. Review the associated SAI, with emphasis on the Controls Attribute section.
3. Review the De-Icing / Anti-Icing Program.
4. Observe and assess the De-Icing / Anti-Icing process.
5. Review De-Icing / Anti-Icing Program records. (e.g. holdover time, De-Icing fluid type, outsourcing, De-Icing/Anti-Icing equipment, etc.)

To meet this objective, the inspector will answer the following questions:

1. Were the following performance measures met :

<i>1.1 The observed aircraft De-Icing/Anti-Icing process was in accordance with the Air Carrier's De-Icing/Anti-Icing Program.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO	If no, explain:
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<i>1.2 Aircraft observed at the final checkpoint were free of all frost, ice, and snow.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO	If no, explain:
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<i>1.3 Aircraft observed at take-off were free of all frost, ice, and snow.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO	If no, explain:
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2. Were the De-Icing/Anti-Icing Program procedures followed?	<input type="checkbox"/> YES <input type="checkbox"/> NO	If no, explain:
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3. Were De-Icing/Anti-Icing Program controls followed?	<input type="checkbox"/> YES <input type="checkbox"/> NO	If no, explain:
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4. Did records comply with the De-Icing/Anti-Icing Program requirements?	<input type="checkbox"/> YES <input type="checkbox"/> NO	If no, explain:
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5. <Deleted>

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SUPPLEMENTAL INFORMATION

SRRs:

- 14 CFR 121.629 (a-d), “Operation in icing conditions.”

Other CFRs and FAA Guidance:

- FAA Order 8400.10, Vol. 4, Chap. 8, “Ground De-Icing/Anti-Icing Programs.”
- Federal Register, 57 FR 44924, “Aircraft Ground De-Icing and Anti-Icing Program.” Vol. 57, No. 189; Sep. 29, 1992.
- FSAT XX-XX, “FAA-Approved De-Icing Program Updates.”
- FSAT 97-10, as amended, “FAA-Approved De-Icing Program Updates.”
- Refer to Advisory Circulars using a search engine (such as ATP Navigator or Summit).